

The Speed of Sound and Derived Thermodynamic Properties of Liquid HFC-227ea from 248 K to 333 K and Pressures up to 65 MPa

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This work reports experimental data of the speed of sound in liquid 1,1,1,2,3,3,3-heptafluoropropane (HFC227 ea) from 248 K to 333 K and pressures up to 65 MPa, measured with a pulse-echo method. The results are fitted with a rational approximant. Derived thermodynamic properties are calculated combining our experimental data with density and isobaric heat capacity values published by other authors. The results were compared with the data available in the literature.